# UDP-89
# PROFESSIONAL UNIVERSAL DVD/CD PLAYER

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FIRST WE LISTEN

# UDP-89 PROFESSIONAL UNIVERSAL DVD/CD PLAYER

## UDP-89 KEY FEATURES

- Fully professional, multi-format disc player
- Plays CD, Video CD, SACD, DVD-Video, and DVD-Audio
- Plays mp3 and MPEG4 .avi files
- Audiophile sound quality
- Broadcast-quality video performance
- Built-in preamp with volume control for direct connection to active 5.1 speaker systems
- Dolby™ Digital and DTS decoding
- MPEG audio decoding
- Composite, S-Video, Component, RGB and HDMI video outputs
- Balanced analog audio outputs: L/R via XLR; L/R and 6 channel surround via 25-pin D-type
- Unbalanced analog audio outputs: L/R plus discrete 6 channel surround via RCA/phonos
- AES/EBU and S/PDIF (coax and optical) digital audio and bitstream outputs
- Full 24-bit/192kHz Wolfson DACs for uncompromised audio performance
- 14-bit 165MHz video DACs
- Rugged build quality for dependable use in demanding professional applications
- Professional cueing function
- RS232 and parallel remote control
- HD JPEG viewer
- Infra-red remote control (supplied)
- Volume controllable via remote
- 1U rack mounting chassis

### THE ULTIMATE UNIVERSAL DVD/CD PLAYER

**DVD playback is an ever expanding requirement in virtually every type of AV installation, from broadcast facilities and boardroom presentations to public information displays and entertainment systems.**

The HHB UDP-89 is designed to provide the system integrator with a highly robust, flexible and professionally specified alternative to the consumer players that have previously been pressed into service.

The UDP-89 is a universal DVD/CD player that delivers broadcast-quality video and audio playback and has a host of professional interfacing features that make it ideal for use in a wide variety of mobile and fixed installations.

### IF IT'S ON A DISC, CHANCES ARE THE UDP-89 WILL PLAY IT

By making the UDP-89 compatible with a huge array of disc and file formats, HHB has effectively removed the limitations imposed by conventional devices to produce a truly universal player. CD, CD-R, CD-RW, Video CD, SACD, DVD-Video, DVD-Audio, DVD-R, DVD+R, DVD-RW and DVD+RW are all supported, and mp3 audio and MPEG4 .avi video files can also be played.

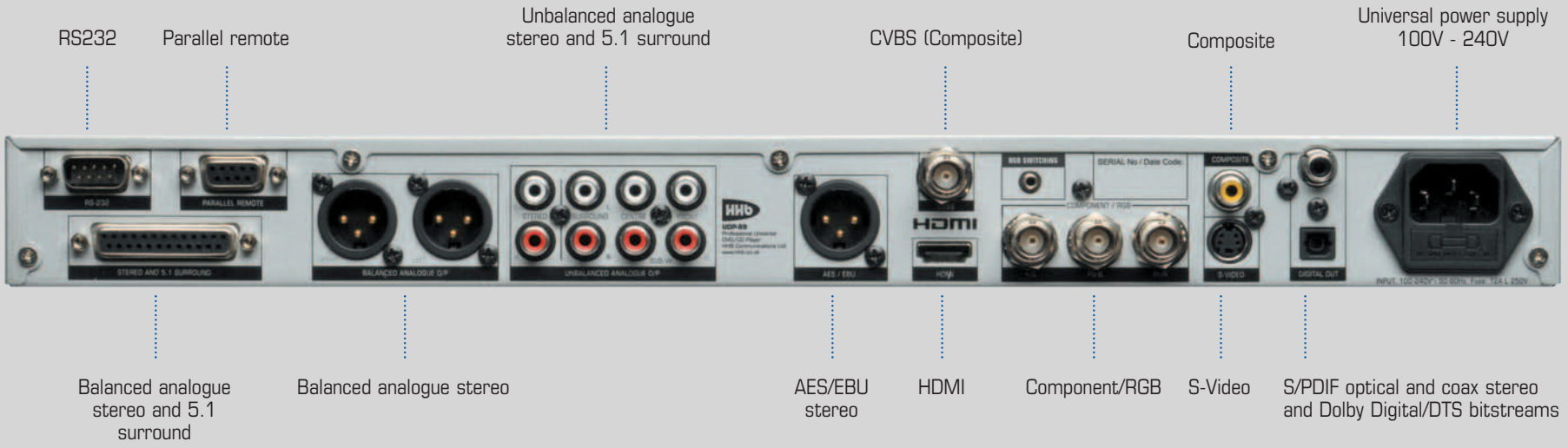
### UNCOMPROMISED DESIGN FOR REFERENCE AUDIO AND VIDEO PERFORMANCE

The UDP-89 delivers the ultimate in DVD video quality via its digital HDMI output, six 14-bit 165MHz video DACs providing progressive scan 480p/576p, plus upscaling to 720p and 1080i (available from both HDMI and component outputs). Unlike the majority of DVD players in which audio is so often the poor partner, the

# UDP-89 OUTPUTS

**Video/graphics - five outputs:** Composite, CVBS, S-Video, HDMI, Component/RGB
**Stereo audio - seven outputs:** Balanced x 2, Unbalanced x 2, AES/EBU, S/PDIF optical, S/PDIF coax

**Surround 5.1 audio - two outputs:** Balanced and Unbalanced
**Dolby Digital/DTS encoded surround - two outputs:** S/PDIF optical and coax




UDP-89 features Wolfson 24-bit/192kHz audio DACs and high-end analogue circuitry for audiophile performance. And the UDP-89 is the only DVD player available with stereo and 5.1 balanced audio outputs to get the very best from high-resolution SACD and DVD-Audio formats.

## TOUGH, PROFESSIONAL BUILD QUALITY

Definitely not based on a consumer device, the UDP-89 is designed and built from the ground up for demanding professional use. The rugged, rack-mounting chassis houses a pro-grade disc drive comprising of a durable disc loader with a smooth, positive action, and a high-performance laser assembly, extensively tested for dependable, long-term use.

## COMPREHENSIVE FEATURE SET

A complete set of professional audio and video outputs (see above) and a full complement of professional features equip the UDP-89 for use in almost any audio or video disc playing application. The A-B repeat mode makes the UDP-89 ideal for use in fixed installations, while professional cueing functions, RS232 control and a parallel fader start interface are essential features that make it ideal for any playout application.

## ON-BOARD AUDIO PREAMP

The inclusion of a multichannel preamplifier makes it possible to connect the UDP-89 directly to an active 5.1 speaker system, with versatility and convenience enhanced yet further by the inclusion of a volume control which can also be controlled remotely via RS232 or the supplied infra-red remote control.

And wherever space is at a premium, users will appreciate that the UDP-89 can be securely mounted in just 1U of rack space.

# UDP-89 TECHNICAL DATA

| | |
|---|---|
| **Video Output Formats** | PAL: 1080i, 720p, 576p, 576i |
| | NTSC: 1080i, 720p, 480p, 480i |
| **Composite Video** | 1V p-p, 75Ω |
| **S-Video** | Y: 1V p-p, 75Ω |
| | C: 0.3V p-p, 75Ω (Europe) |
| | C: 0.286V p-p, 75Ω (USA) |
| **Component Video** | Y: 1V p-p, 75Ω |
| | Pb: 0.7V p-p, 75Ω |
| | Pr: 0.7V p-p, 75Ω |
| **Audio Performance** | |
| **Frequency Response** | 10Hz-20kHz ±0.5dB |
| **S/N Ratio** | 100dB |
| **THD+N** | 0.005% |
| **Channel Separation** | >90dB |
| **Max output level (0dBFS)** | 22dBu (XLR) |
| | 8dBV (RCA/Phono) |
| **Output Impedance** | <50Ω |
| **Headphone Output** | 1/4" stereo jack |
| **Digital Output** | AES/EBU 110Ω XLR |
| | S/PDIF RCA/Phono coaxial |
| | 0.5V p-p, 75Ω |
| | S/PDIF TOSlink optical |
| **Remote Control** | Infra-red |
| | RS232 |
| | 9-pin opto-isolated parallel |
| **General** | |
| **Display Languages** | English, French, Spanish |
| | German, Italian |
| **Power Supply** | 100-240V 50/60Hz |
| **Power Consumption** | 25W |
| **Weight (Ex Packaging)** | 4.3kg/9.4lbs |
| **Dimensions** | |
| **Height** | 44mm (1.75 inches) |
| **Depth incl. connectors** | 343mm (13.5 inches) |
| **Width** | 482mm (19 inches) |
| **Supplied Accessories** | RC89 Remote control |
| | 2 x AAA batteries |
| | Power cord |
| | Operating instructions |

# UDP-89 APPLICATIONS

- Broadcast facilities
- Theatres
- Houses of worship
- Visitor attractions
- Custom A/V installations
- Leisure centres
- Night clubs
- Entertainment systems
- Sports stadia
- Boardrooms
- Home theatre
- Information systems
- Retail systems
- Screening rooms
- Exhibitions

HHB Communications Ltd
73-75 Scrubs Lane, London NW10 6QU, UK T +44 (0)20 8962 5000 E sales@hhb.co.uk W www.hhb.co.uk
In the USA, Central & South America: Sennheiser Electronic Corporation
T 860 434 9190 E HHB-Sales@sennheiserusa.com W www.sennheiserusa.com
In Canada: HHB Communications Canada Ltd
T 416 867 9000 E sales@hhbcanada.com W www.hhbcanada.com

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